



ITW

A-9838
PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Lars Ivar SAMUELSON et al.

Appln. No.: 10/814,630

Group Art Unit: 2811

Filed: April 1, 2004

For: NANOWHISKERS WITH PN JUNCTIONS, DOPED NANOWHISKERS,
AND METHODS FOR PREPARING THEM

INFORMATION DISCLOSURE STATEMENT

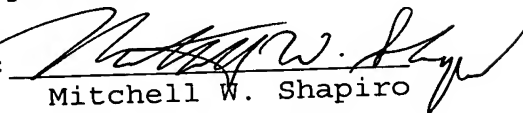
Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.56, and without any assertion as to materiality or prior art effect, the documents listed on the attached Form PTO-1449 are hereby cited.

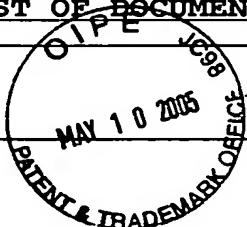
The Commissioner is hereby authorized to charge to Deposit Account No. 50-1165 any fees under 37 C.F.R. §§ 1.16 and 1.17 that may be required by this paper and to credit any overpayment to that Account. If any extension of time is required in connection with the filing of this paper and has not been requested separately, such extension is hereby requested.

Respectfully submitted,

By: 
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May 10, 2005

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT		Atty. Docket No. A-9838	Appln. No. 10/814,630
		Applicant Lars Ivar SAMUELSON et al.	
		Filing Date April 1, 2004	Group 2811

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	AF	Yasawa, M. et al, "Heteroepitaxial Ultrafine Wire-Like Growth of InAs on GaAs Substrates", <u>Appl. Phys. Lett.</u> , Vol. 58, No. 10, March 11, 1991, pp. 1080-1082.					
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	AI	Yazawa, M., "Nanocolumns composed of GaAs-InAs jointed whiskers and SiO2 covers", <u>Applied Physics Letters</u> , Vol. 65, August 29, 1994, pp. 1157-1158					
	AJ	Sato, T., "Site-controlled growth of nanowhiskers", <u>Applied Physics Letters</u> , Vol. 66, January 9, 1995, pp. 159-161.					
	AK	Hiruma, K., et al., "Growth and optical properties of nanometer-scale GaAs and InAs whiskers", <u>Applied Physics Review</u> , Vol. 77, January 15, 1995, pp. 447-462.					
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	AP	Lieber, C., "Nanowires as Building Blocks for Nanoscale Science and Technology", <u>Abstracts of Papers of the Amer. Chem Soc.</u> , Vol. 224, August 18, 2002, pp. 033-Comp Part 1.					

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	BN	Cui, Y., et al., "Diameter-controlled synthesis of single-crystal silicon nanowires", <u>Applied Physics Letters</u> , Vol. 78, No. 15, April 9, 2001, pp. 2214-2216.					
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	CH	Huang, Y., et al., "Gallium Nitride Nanowire Nanodevices", <u>Nano Letters</u> , Vol. 2, No. 2, January 11, 2002, pp. 81-82.					
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	DA	6,743,408	6/1/04	Lieber et al.	423	447.1	
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	DH	Morales, A., et al., "A Laser Ablation Method for the Synthesis of Crystalline Semiconductor Nanowires", <u>Science</u> , Vol. 279, January 9, 1998, pp. 208-211.					
	DJ	Cui Y., et al., "Functional Nanoscale Electronic Devices Assembled Using Silicon Nanowire Building Blocks", <u>Science</u> , Vol. 291, February 2, 2001, pp. 851-853.					
	DK	Wang, J., et al., "Highly Polarized Photoluminescence and Photodetection from Single Indium Phosphide Nanowires", <u>Science</u> , Vol. 293, No. 5534, August 24, 2001, pp. 1455-1457.					
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	EH	Dai, H., et al., "Synthesis and Characterization of Carbide Nanorods", <u>Nature</u> , Vol. 375, June 29, 1995, pp. 769-772.					
	EI	Junno, T., et al., "Controlled manipulation of nanoparticles with an atomic force microscope", <u>Applied Physics Letters</u> , Vol. 66, June 26, 1995, pp. 3627-3629.					
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	FE	Ohlsson B.J, et al., "Size-, shape-, and position-controlled GaAs nano-whiskers", <u>Applied Physics Letters</u> , Vol. 79, No. 20, November 12, 2001, pp. 3335-3337.					
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	GH	Samuelson, L., "Self-Forming Nanoscale Devices", <u>Materials Today</u> , October 22, 2003, pp. 22-31.					
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	IJ	Ferry, D.K., et al., "Transport in Nanostructures", <u>Cambridge University Press</u> , Hardcover, January 1, 1997, pp. 41-45.					
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	ME	Kapon, E., et al., "Stimulated Emission in Semiconductor Quantum Wire Heterostructures", <u>Physical Review Letters</u> , Vol. 63, No. 4, July 24, 1989, pp. 430-433.					
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	TK	Hiruma, K. et al., "GaAs and InAs Nanowire Growth Technology", <u>Proceedings of the Science and Technology of Atomically Engineered Materials</u> , October 30, 1995, pp. 563-570					
	TL	Westwater, J. et al., "Control of the size and position of silicon nanowires grown via the vapor-liquid-solid technique", <u>Japanese Journal of Applied Physics</u> , Part 1, October 1997, Vol. 36, pp. 6204-6209					
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	UA	2003/0200521	10/23/03	DeHon et al.	716	16	
	UB	5,544,617	8/13/96	Terui et al.	117	87	
	UC	5,858,862	1/12/99	Westwater et al.	438	503	
	UD	5,976,957	11/2/99	Westwater et al.	438	478	
	UE	6,130,142	10/10/00	Westwater et al.	438	478	
	UF	6,130,143	10/10/00	Westwater et al.	438	478	
	UG	2003/0121764	7/3/03	Yang et al.	200	262	
	UH	2002/0129761	9/19/02	Takami	117	73	
	UI	2002/0172820	11/21/02	Majumdar et al.	428	357	
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	UJ	1 342 075	9/10/03	Europe			yes
	UK	1 314 189	5/28/03	Europe			yes
	UL	03/053851	7/3/03	WIPO			
	UM	2004/038767	5/6/04	WIPO			
	UM	2004/010552	1/29/04	WIPO			
	UN	03/063208	7/31/03	WIPO			
	UO	0 443 920	8/28/91	Europe			abstract
	UP	2000-068493	3/3/00	Japan			abstract
	UQ	0 838 865	4/29/98	Europe			
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	UR	O'Regan et al., "A Low-Cost, High-Efficiency Solar Cell Based on Dye-Sensitized Colloidal TiO ₂ Films", <u>Nature</u> , Vol. 353, October 24, 1991, pp. 737-740.					
	US	Jun et al., "Architectural Control of Magnetic Semiconductor Nanocrystals", <u>J. Am. Chem. Soc.</u> , Vol. 124, No. 4, January 4, 2002, pp. 615-619.					
	UT	Manna et al., "Synthesis of Soluble and Processable Rod-, Arrow-, Teardrop-, and Tetrapod-Shaped CdSe Nanocrystals", <u>J. Am. Chem. Soc.</u> , Vol. 122, No. 51, December 1, 2000, pp. 12700-12706.					
	UU	Huang et al., "Directed Assembly of one-dimensional nanostructures into functional networks", <u>Science</u> , Vol. 291, January 26, 2001, pp. 630-633.					
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	VA	5,899,734	5/4/99	Lee	438	584	
	VB	2002/0175408	11/28/02	Majumdar et al.	257	734	
	VC	6,559,468	5/6/03	Kuekes et al.	257	14	
	VD	2002/0130311	9/19/02	Lieber et al.	257	1	
	VE	2003/0089899	5/15/03	Lieber et al.	257	9	
	VF	2004/0213307	10/28/04	Leiber et al.	372	39	
	VG						
	VH						
	VI						
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	VI						
	VJ						
	VK						
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	VQ	Persson, "Heterointerfaces in III-V semiconductor nanowhiskers", <u>IEEE</u> , 2002, pp. 281-293.					
	VR	Gao et al., "Self-Assembled Nanowire-Nanoribbon Junction Arrays of ZnO", <u>The Journal of Physical Chemistry</u> , Vol. 106, No. 49, November 12, 2002, pp. 12653-12658.					
	VS	Yan et al., "Dendritic Nanowire Ultraviolet Laser Array", <u>J. Am. Chem. Soc.</u> , Vol. 125, March 29, 2003, pp. 4728-4729.					
	VT	Jun et al., "Controlled Synthesis of Multi-Armed CdS Nanorod Architectures Using Monosurfactant System", <u>J. Am. Chem. Soc.</u> , Vol. 123, May 5, 2001, pp. 5150-5151.					
	VU	Poole et al., "Spatially Controlled, Nanoparticle-Free Growth of InP Nanowires", <u>Applied Physics Letters</u> , Vol. 83, No. 10, September 8, 2002, pp. 2055-2057.					
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	WD						
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	WE						
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	WF	Hiruma et al., "Quantum Size Microcrystals Grown Using Organometallic Vapor Phase Epitaxy", <u>Appl. Phys. Lett.</u> , Vol. 59, No. 4, July 22, 1991, pp. 431-433.					
	WG	Xia et al., "One-Dimensional Nanostructures: Synthesis, Characterization, and Applications", <u>Adv. Mater.</u> , Vol. 15, No. 5, March 4, 2003, pp. 353-389.					
	WH	Ozaki et al., "Silicon Nanowhiskers Grown on a Hydrogen-Terminated Silicon {111} Surface", <u>Applied Physics Letters</u> , Vol. 73, No. 25, December 21, 1998, pp. 3700-3702.					
	WI	Wu et al., "Growth, Branching, and Kinking of Molecular-Beam Epitaxial <110> GaAs Nanowires", <u>Applied Physics Letters</u> , Vol. 83, No. 16, October 20, 2003, pp. 3368-3370.					
	WJ	Grätzel, "Photoelectrochemical Cells", <u>Nature</u> , Vol. 414, November 15, 2001, pp. 338-344.					
	WK	Wang et al., "Nanocrystals Branch Out", <u>Nature Materials</u> , Vol. 2, June 2003, pp. 355-356.					
	WL	Manna et al., "Controlled Growth of Tetrapod-Branched Inorganic Nanocrystals", <u>Nature Materials</u> , Vol. 2, June 2003, pp. 382-385.					
	WM	Wang et al., "Rational Growth of Branched and Hyperbranched Nanowire Structures", <u>Nano Letters</u> , Vol. 4, No. 5, March 31, 2004					
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	XE						
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	XF	Oda et al., "Natural Formation of Square Scale Structures on Patterned Vicinal Substrates by MOVPE: Application to the Fabrication of Quantum Stuctures", <u>Inst. Phys. Conf. Ser.</u> , No. 166, Chapter 4, August 22, 1999, pp. 191-194.					
	XG	Hayakawa et al., "AlGaAs Nano-Meter Scale Network Structures Fabricated by Selective Area MOVPE", <u>Inst. Phys. Conf. Ser.</u> , No. 162, Chapter 8, October 12, 1998, pp. 415-419.					
	XH	Akabori et al., "Selective Area MOVPE Growth of Two-Dimensional Photonic Crystals Having an Air-Hole Array and its Application to Air-Bridge-Type Structures", <u>Physica E</u> , No. 13, 2002, pp. 446-450.					
	XI	Melechko et al., "Large-Scale Synthesis of Arrays of High-Aspect-Ratio Ridig Vertically Aligned Carbon Nanofibres", <u>Nanotechnology</u> , No. 14, August 19, 2003, pp. 1029-1035.					
	XJ	Kempa et al., "Photonic Crystals Based on Periodic Arrays of Aligned Cabon Nanotubes", <u>Nano Letters</u> , Vol. 3, No. 1, November 19, 2002, pp. 13-18.					
	XK	Akabori et al., "InGaAs Nano-Pillar Array Formation on Partially Masked InP(111)B by Selective Area Metal-Organic Vapour Phase Epitaxial Growth for Two-Dimensional Photonic Crystal Application", <u>Nanotechnology</u> , No. 14, August 27, 2003, pp. 1071-1074.					
	XL	Zhong et al., "Nanowire Crossbar Arrays as Address Decoders for Integrated Nanosystems" <u>Science</u> , Vol. 302, November 21, 2003, pp. 1377-1379.					
	XM	McAlpine et al., "High-Performance Nanowire Electronics and Photonics on Glass and Plastic Substrates", <u>Nano Letters</u> , Vol. 3, No. 11, October 14, 2003, pp. 1531-1535.					
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	YE						
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	YF						
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	YG	Whang et al., "Large-Scale Hierarchical Organization of Nanowire Arrays for Integrated Nanosystems", <u>Nano Letters</u> , Vol. 3, No. 9, August 5, 2003, pp. 1255-1259.					
	YH	McAlpine et al., "Nanoimprint Lithography for Hybrid Plastic Electronics", <u>Nano Letters</u> , Vol. 3, No. 4, March 7, 2003, pp. 443-445.					
	YI	Bozovic et al., "Plastic Deformation in Mechanically Strained Single-Walled Carbon Nanotubes", <u>Physical Review B</u> , Vol. 67, January 22, 2003, pp. 033407-1 - 033407-4.					
	YJ	Hahm et al., "Direct Ultrasensitive Electrical Detection of DNA and DNA Sequence Variations Using Nanowire Nanosensors", <u>Nano Letters</u> , Vol. 4, No. 1, December 9, 2003, pp. 51-54.					
	YK	Lieber, "Nanoscale Science and Technology: Building a Big Future from Small Things", <u>MRS Bulletin</u> , July 2003, pp. 486-491.					
	YL	Yu et al., "Silicon Nanowires: Preparation, Device Fabrication, and Transport Properties", <u>J. Phys. Chem. B</u> , Vol. 104, No. 50, November 23, 2000, pp. 11864-11870.					
	YM	Law et al., "Photochemical Sensing of NO ₂ with SnO ₂ Nanoribbon Nanosensors at Room Temperature", <u>Angew. Chem. Int. Ed.</u> , Vol. 41, No. 13, 2002, pp. 2405-2408.					
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	ZB						
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	ZE						
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	ZF	Lao et al., "Hierarchical ZnO Nanostructures", <u>Nano Letters</u> , Vol. 2, September 13, 2002, pp 1287-1291.					
	ZG	Barrelet et al., "Synthesis of CdS and ZnS Nanowires Using Single-Source Molecular Precursors", <u>J. Am. Chem. Soc.</u> , Vol. 125, 2003, pp. 11498-11499.					
	ZH	Martensson et al., "Nanowire Arrays Defined by Nanoimprint Lithography", <u>Nano Letters</u> , Vol. 4, March 17, 2004, pp. 699-702.					
	ZI	Hornstra, "Dislocations in the Diamond Lattice", <u>J. Phys. Chem. Solids</u> , Vol. 5, 1958, pp. 129-141.					
	ZJ	Krost et al., "InP on Si(111): Accommodation of Lattice Mismatch and Structural Properties", <u>Appl. Phys. Lett.</u> , Vol. 64, No. 7, February 7, 1994, pp. 769-771.					
	ZK	Gorbach et al., "Growth of III-V Semiconductor Layers on Si Patterned Substrates", <u>Thin Solid Films</u> , Vol. 336, 1998, pp. 63-68.					
	ZL	Ohlsson et al., "Anti-Domain-Free GaP, Grown in Atomically Flat (001) Si Sub- μ m-sized Openings", <u>Applied Physics Letters</u> , Vol. 80, No. 24, June 17, 2002, pp. 4546-4548.					
	ZM	Kawanami, "Heteroepitaxial Technologies of III-V on Si", <u>Solar Energy Materials & Solar Cells</u> , Vol. 66, 2001, pp. 479-486.					
	ZN	Westwater et al., "Growth of Silicon Nanowires Via Gold/Silane Vapor-Liquid-Solid Reaction", <u>J. Vac. Sci. Technol. B.</u> , Vol. 15, No. 3, 1997, pp. 554-557.					
	ZO	Kamins et al., "Ti-Catalyzed Si Nanowires by Chemical Vapor Deposition: Microscopy and Growth Mechanisms", <u>Journal of Applied Physics</u> , Vol. 89, No. 2, January 15, 2001, pp. 1008-1016.					
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	AAF	Kamins et al., "Growth and Structure of Chemically Vapor Deposited Ge Nanowires on Si Substrates", <u>Nano Letters</u> , Vol. 4, No. 3, January 23, 2004, pp. 503-506.					
	AAG	Thornton et al., "A Photoemission Study of Passivated Silicon Surfaces Produced by Etching in Solutions of HF", <u>Semicond. Sci. Technol.</u> , Vol. 4, 1989, pp. 847-851.					
	AAH	Borgstrom et al., "Size- and Shape-Controlled GaAs Nano-Whiskers Grown by MOVPE: A Growth Study", <u>Journal of Crystal Growth</u> , Vol. 260, 2004, pp. 18-22.					
	AAI	Westwater et al., "Si Nanowires Grown Via the Vapour-Liquid-Solid Reaction", <u>Phys. Stat. Sol.</u> , Vol. (a)165, 1998, pp. 37-42.					
	AAJ	Westwater et al., "The Characteristics and Oxidation of Vapor-Liquid-Solid Grown Si Nanowires", <u>Mat. Res. Soc. Symp. Proc.</u> , Vol. 452, 1997, pp. 237-242.					
	AAK	Westwater et al., "Nanoscale Silicon Whiskers Formed by Silane/Gold Reaction at 335°C", <u>Materials Letters</u> , Vol. 24, June 1995, pp. 109-112.					
	AAL	Yang, "Semiconductor Nanowire Array", <u>Proceedings of the SPIE</u> , Vol. 4806, 2002, pp. 222-224.					
	AAM	Abramson et al., "Nanowire Composite Thermoelectric Devices", <u>Proceedings of IMECE2002, ASME International Mechanical Engineering Congress & Exposition</u> , November 17-22, 2002, pp. 7-11.					
	AAN	Johnson et al., "Single Nanowire Waveguides and Lasers", <u>Proceedings of SPIE</u> , Vol. 5223, 2003, pp. 187-196.					
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	BBC						
	BBD						
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	BBE						
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	BBF	Greene et al., "Low-Temperature Wafer-Scale Production of ZnO Nanowire Arrays", <u>Angew. Chem. Int. Ed.</u> , Vol. 42, 2003, pp. 3031-3034.					
	BBG	Kim et al., "Nanowire Arrays for Thermoelectric Devices", <u>Proceedings of HT2003, ASME Summer Heat Transfer Conference</u> , July 21-23, 2003, pp. 101-104.					
	BBH	Choi et al., "Self-Organized GaN Quantum Wire UV Lasers", <u>J. Phys. Chem. B.</u> , Vol. 107, 2003, pp. 8721-8725.					
	BBI	Yang, "From Nanowire Lasers to Quantum Wire Lasers", <u>Proceedings of SPIE</u> , Vol. 5349, 2004, pp. 18-23.					
	BBJ	Samuelson et al., "Semiconductor Nanowires for Novel One-Dimensional Devices", <u>Physica E</u> , Vol. 21, 2004, pp. 560-567.					
	BBK	Shorubalko et al., "Tunable Nonlinear Current-Voltage Characteristics of Three-Terminal Ballistic Nanojunctions", <u>Applied Physics Letters</u> , Vol. 83, No. 12, September 22, 2003, pp. 2369-2371.					
	BBL	Samuelson et al., "Fabrication and Spectroscopic Studies of InP/GaInAs/InP and GaAs/GaInAs/GaAs Quantum-Well Wire Structures", <u>Inst. Phys. Confer. Ser.</u> No. 127, Chapter 3, January 1, 1992, pp. 95-98.					
	BBM	Samuelson et al., "Fabrication and Imaging of Quantum Well Wire Structures", <u>SPIE</u> , Vol. 1676, 1992, pp. 154-160.					
	BBN	Larsson et al., "Probing of Individual Semiconductor Nanowhiskers by TEM-STM", <u>Microscopy and Microanalysis</u> , Vol. 10, 2004, pp. 41-46.					
	BBO	Ramvall et al., "Quantized Conductance in a Heterostructurally Defined Ga _{0.25} In _{0.75} As/InP", <u>Appl. Phys. Lett.</u> , Vol. 71, August 18, 1997, pp. 918-920.					
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	CCE						
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	CCH	Thelander et al., "One Dimensional Heterostructures and Resonant Tunneling in III-V Nanowires", <u>IEEE International Symposium on Compound Semiconductors</u> , August 25, 2003, pp. 151-152.					
	CCI	Björk et al., "Heterostructures in One-Dimensional Nanowires", <u>Proceedings of 7th International Conference of Nanometer-Scale Science and Technology and 21st European Conference on Surface Science</u> , June 24, 2002.					
	CCJ	Ohlsson et al., "Comparison Between (111)B and (100)III-V Nanowhiskers", <u>Proceedings of 7th International Conference of Nanometer-Scale Science and Technology and 21st European Conference on Surface Science</u> , June 24, 2002.					
	CCK	Larsson et al., "In-Situ Manipulations and Electrical Measurements of III-V Nanowhiskers with TEM-STM, <u>Proceedings of 7th International Conference of Nanometer-Scale Science and Technology and 21st European Conference on Surface Science</u> , June 24, 2002.					
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	DDC						
	DDD						
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	DDE						
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